



# Got Air? Hidden Toxins in Tobacco Smoke Exposure April 10, 2014

#### Tobacco Facts...

Cigarette smoking causes about 1 of every 5 deaths in the United States each

year

- More deaths are caused each year by tobacco use than by all deaths from the following combine
  - HIV
- Illegal Drug Use Alcohol Use
- Motor Vehicle Injuries
- Suicides
- Murders
- Combine this is equivalent to 3 jumbo jets crashing each day for a year!

393,600 deaths annually

49,400 deaths annually from secondhand smoke exposure

#### 599 of the 4,000+ Chemicals Found in Cigarettes1

#### What's In A Cigarette?

- Acetone (nail polish remover)
- Ammonia (floor cleaner)
- Arsenic (poison)
- Butane (cigarette lighter fluid)
- Cadmium (rechargeable batteries)
- Carbon Monoxide (car exhaust) ■ DDT (insecticide)
- Formaldehyde (preserver)
- Hydrogen cyanide (gas chamber)
- Naphthalene (mothballs)
   Hexamine (barbecue lighter)



#### Research Shows...

- Surgeon General's Reports
- New England Journal of Medicine
- American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE)
- U.S Department of Housing and Urban Development (HUD)



It's about the smoke NOT THE SMOKER!

#### Primary Smoke

- First-Hand Smoke, or main-stream smoke The smoke inhaled into the lungs while smoking
- Recognized as harmful in 1950 (Doll and Hill), Surgeon General Report of 1964 Highly toxic, and is inhaled in high doses directly into lungs



#### Second-Hand Smoke

- Second-Hand Tobacco Smoke, or "passive smoke", or "environmental tobacco smoke"
- The smoke exhaled from smoking or from the burning tip of a cigarette (side stream smoke -SSS) SSS represents ~85% of SHS
- SHS has the same cancer-causing substances as primary smoke



#### Third-Hand Smoke or **Particulate Matter**

- The "legacy" of SHS: the contamination that remains in a room/car that persists after the smoke is gone
- Exposure occurs via inhalation of gases and re-suspended particles, dermal absorption from contact, and ingestion of dust

"Breathing air in a room today where people smoked yesterday can harm your health"



#### Tobacco Smoke - No Limits

Tobacco smoke can move along air ducts, through cracks in the walls and floors, through elevator shafts, and along plumbing and electrical lines to affect units/rooms on other floors.

Bacon Analogy



## Residue and stains on walls, curtains, cabinets, blinds, appliances and fixtures

Tobacco Smoke/ **Particulate Matter** 

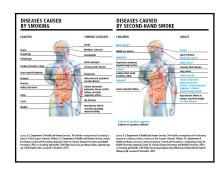
- Odor in carpets, curtains and walls
- Burn damage to tiles, carpets, curtains, countertops and bathtubs













### **Smoke Free NH Law**

- NH Law -126K
- ∘ Public (K-12) Schools, Grounds, Fields -24/7
- NH Law 155(Indoor Smoking Act)
  Licensed Child Day Care Centers, during hours of
  - operation
    Any place of public access (buildings)
    Hospitals
- Restaurant & Bars
- Social, fraternal, or religious organizations when open to the general public.
- Worksites



#### **Smoke Free Voluntary Policies**

No NH smoke free law on outdoor air!

- Worksites
- Campus, Vehicles or Designated Areas
- Multi-Unit Housing HUD
- Parks & Beaches
- Designated AreasColleges/Universities



#### **NH DHHS Tobacco Policy**

- Tobacco products including but not limited to cigarettes, cigars, pipes and smokeless tobacco, is prohibited inside all DHHS facilities or state owned vehicles.
- Tobacco products at prohibited in private owned vehicles used by employees on state business.
- Tobacco products are allowed only in designated areas outside any facility and use receptacles provided.



